

## AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows (using the line numbers on the far left of the page):

On Page 1, line 5, please add the following paragraph:

-- TITLE --

On Page 1, line 8, please add the following paragraph:

-- BACKGROUND --

On Page 2, line 27, please add the following paragraph:

-- SUMMARY --

On Page 12, line 37, please add the following paragraph:

-- BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS --

On Page 13, line 17, please add the following paragraphs:

-- FIGURE 9 shows the spinning disc of Figure 3 rotated at an angle;

FIGURE 10 shows the spinning disc of Figure 3 rotated at a perpendicular angle;

FIGURE 11 shows a plurality of troughs provided on the surface and each trough has associated with it a feed means; and

FIGURE 12 shows a plurality of support elements mounted on a plurality of axes of rotation.

DETAILED DESCRIPTION --

Please amend the paragraph on Page 13, lines 34-41 to read as follows:

-- The apparatus of Figure 1 may be started up and operated as described in Example 1 below. In the case that the process is an exothermic conversion, cooling coils (8) may be used to quench the collected product in the trough (7). The spinning disc (3) is provided with heating coils (not shown) which may be used to initiate or maintain conversion. The disc (3) or the reactor vessel (1) may be provided with a source of radiation (100), means for applying an electric or magnetic field and the like as described, at or above the disc surface (5) or at the wall of the reactor vessel (1). --

Please amend the paragraph on Page 13, lines 44-48 to read as follows:

-- In Figure 2 there is shown an axially located central trough (14) which is continuous and forms a well situated on the axis of rotation (6) of the rotating surface (5) of a disc (3). Rotation causes reactant (15) supplied by the feed means (4) to flow to the wall and form an annular film (16) within the trough (14). The annular film (16) then spills over onto the surface (5) of the disc (3) to form a film (17) on the surface (5). Eccentric axis of rotation (6') is also shown. --

Please amend the paragraph on Page 14, lines 14-22 to read as follows:

-- Figure 4 shows three discs (3) coaxially mounted on a drive shaft (2) which defines an axis of rotation (6). Each disc (3) has a central trough (13) into which reactant (15) may be fed, and a peripheral wall (18). Reactant (15) is supplied to the trough (13) of the topmost disc (3) by way of feed means (4), and then spreads out over the surface (5) of the disc (3). Product (19) is collected from the vicinity of the peripheral wall (18) by way of a pitot tube collector (20), which then feeds product (19) to the trough (13) of the next disc (3) down on the drive shaft (2). In this way, a process can be performed across a number of discs (3) in series. Means for applying vibration (200) is also shown. --

Please amend the paragraph on Page 14, lines 24-33 to read as follows:

-- Figure 5 shows three discs (3) coaxially mounted on a drive shaft (2) which defines an axis of rotation (6). Each disc (3) has a central trough (13) into which reactant (15) may be fed, and a peripheral wall (18). Reactant (15) is supplied in parallel to the trough (13) of each disc (3) by way of feed means (4), and then spreads out over the surfaces (5) of the discs (3). Product (19) is collected from the vicinity of the peripheral walls (18) by way of pitot tube collectors (20), which are also connected in parallel. In this way, a process can be performed across a number of discs (3) in parallel. Means for applying vibration (200) is also shown. --

Please amend the paragraph on Page 14, lines 35-44 to read as follows:

-- Figure 6 shows two discs (3) coaxially mounted on a drive shaft (2) which defines an axis of rotation (6). Each disc (3) has a central trough (13) into which reactant (15) may be fed by feed means (4) before spilling onto the surface (5) of each disc (3). A collector trough (21) is provided about the periphery of each disc (3) so as to collect product (19) thrown from the discs (3). An outlet from the upper collector trough (21) passes through a pump or extruder (22) before leading to the trough (13) of the lower disc (3) as feed means (4). This arrangement is suitable for use with viscous reactants and products. Collector means 90 are also shown. --